

## Faculty of Commerce

## B.Com (Business Analytics) II-Year, CBCS - IV Semester

## Regular Examinations -June/July, 2022

## PAPER: Forecasting and Predictive Analytics

Time: 1Hour 30 Min

Max Marks: 50

## Section-A

I. Answer any *five* of the following questions (5x4=20 Marks)

1. What is data analysis?
2. What is predictive analysis?
3. Clustering.
4. Explain linear optimization.
5. What is data simulation?
6. Regression.
7. SVM Kernel.
8. Seasonal variation.

## Section-B

II. Answer the following questions (5x6=30 Marks)

9. (a) Define Bivariate Analysis? Explain the Bivariate Analysis.  
(OR)  
(b) What is Time series? Explain components of time series.
- 10.(a) What is Classification? Explain Binary, Multiclass and Multi Label Classification.  
(OR)  
(b) Support Vector Machine? Explain various types of SVM
- 11.(a) What is Data Mining? Write about clustering methods in data mining.  
(OR)  
(b) Explain various clustering algorithms to solve business problems.
- 12.(a) Discuss Linear Optimization in order to solve a business problem.  
(OR)  
(b) What is Linear Programming Problem (LPP)? Explain the methods for Transportation problems.
- 13.(a) Discuss about Simulation Modeling.  
(OR)  
(b) What is Monte Carlo simulation? Explain Monte Carlo simulation algorithm model with example.

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